

Final answers

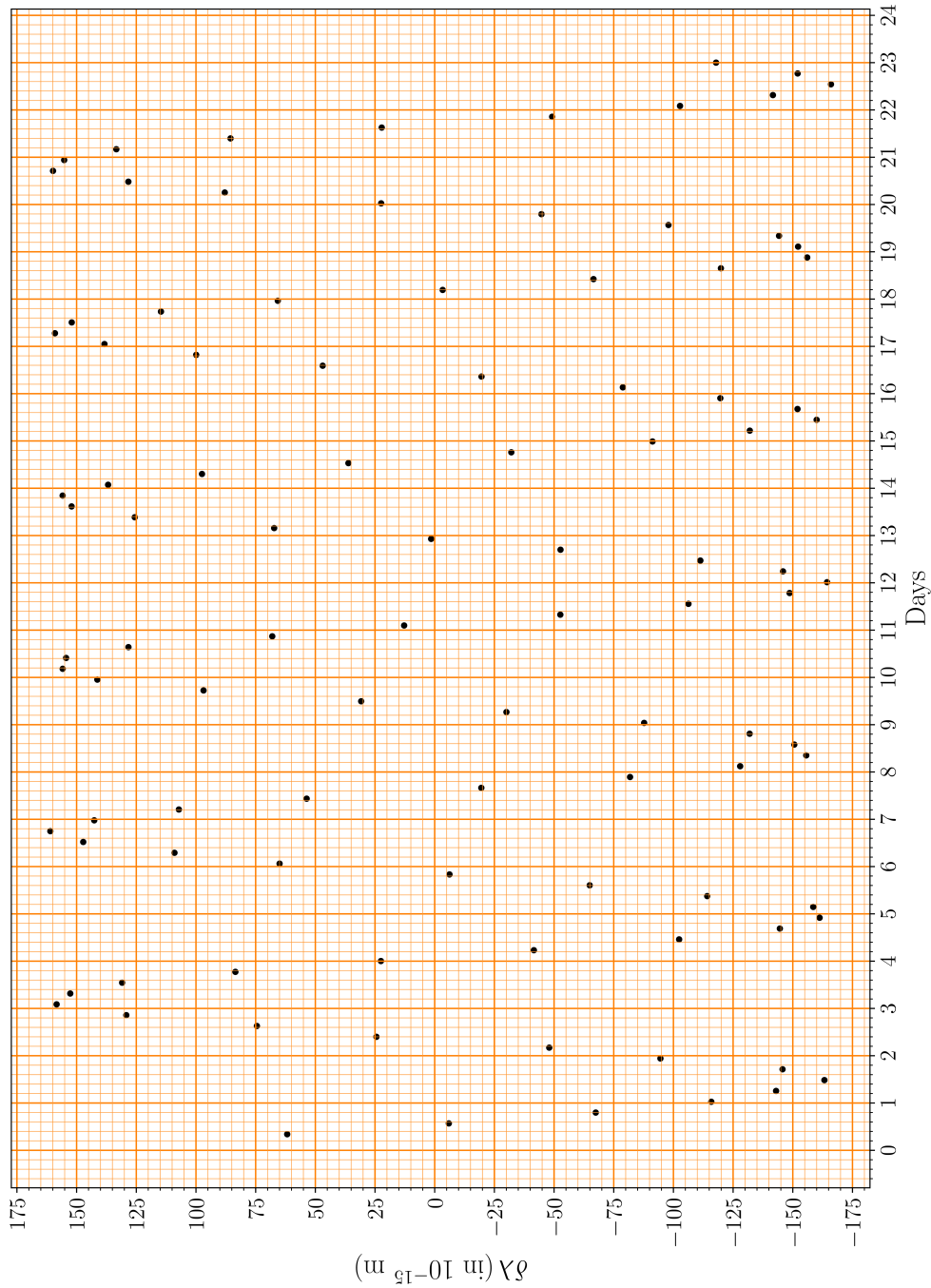
(D01.1)

$M_s =$

$M_\odot$

Marks (8.0)

(D01.2a)



Marks (2.0)

Final answers

(D01.2b)

Marks (11.0)

$K =$

$T =$

(D01.2c)

$M_{p, \min} =$

$M_{\odot}$

Marks (5.0)

(D01.2d)

$a_{\min} =$

au

Marks (4.0)

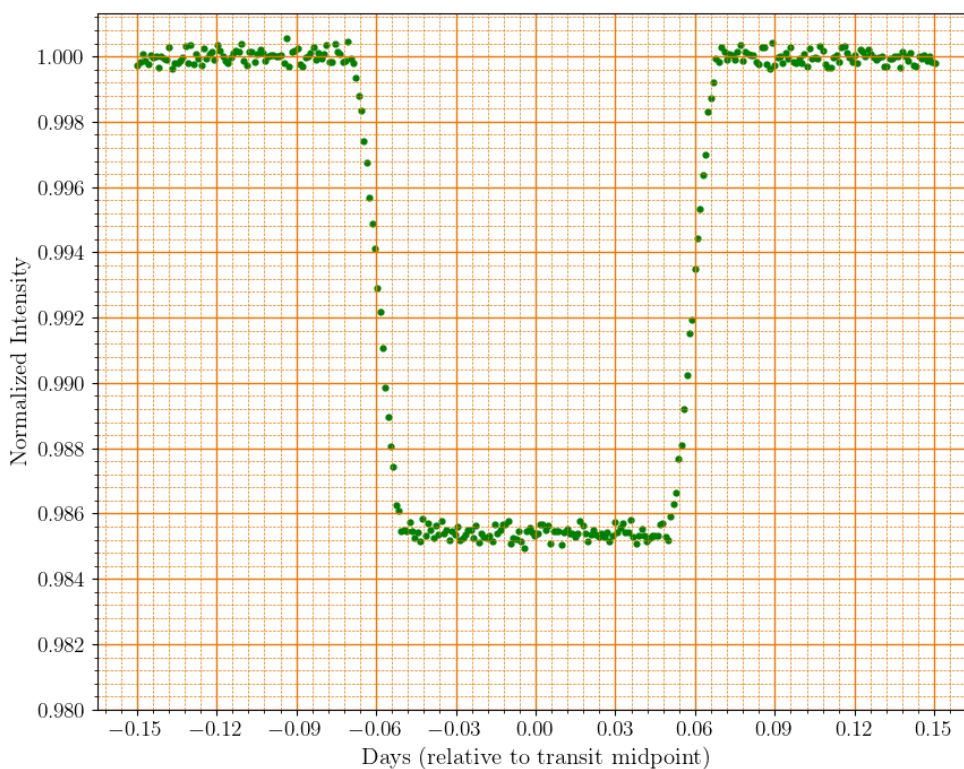
Final answers

(D01.3)

$i_{\min} =$

Marks (3.0)

(D01.4a)



$t_T =$

d

$t_F =$

d

Marks (3.0)

(D01.4b)

$\Delta =$

$R_p =$

$R_{\odot}$

Marks (2.0)

(D01.4c)

$i =$

Marks (2.0)

Final answers

(D01.5a)

Marks (2.0)

(D01.5b)

Marks (4.0)

θ	$J(\theta)$						
0°	1.000						
10°	0.994						
15°	0.984						
20°	0.970						
25°	0.950						
30°	0.943						
40°	0.890						
50°	0.794						
60°	0.724						
70°	0.595						
80°	0.475						
90°	0.312						

(D01.5c)

Graph number: D01.5c

Marks (7.0)

(D01.5d)

$a_1 =$; $a_2 =$

Marks (7.0)

Final answers

(D01.6a)

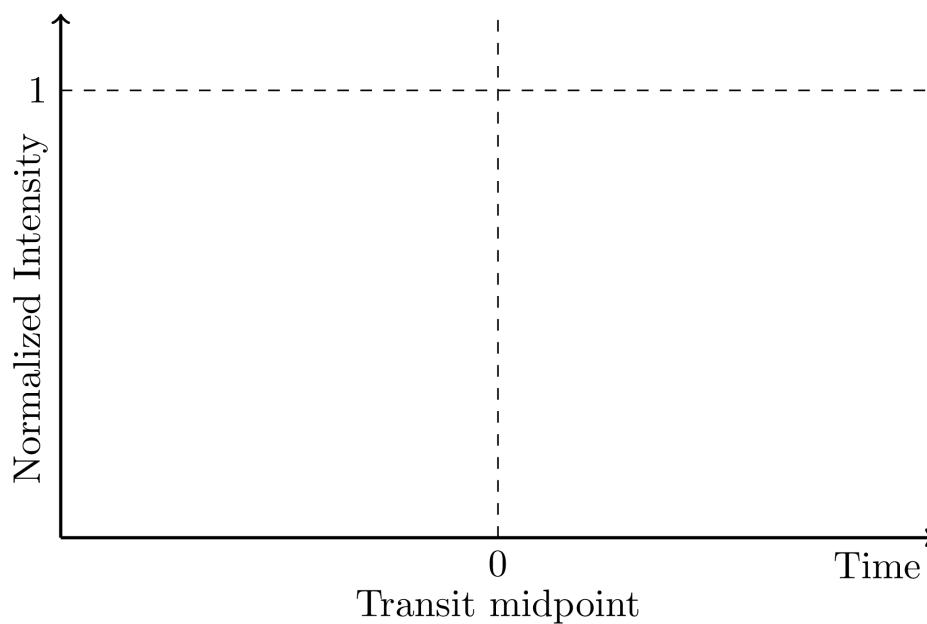
A

B

C

Marks (2.0)

(D01.6b)



Marks (4.0)

(D01.7a)

Marks (6.0)

Final answers

(D01.7b)	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="width: 25%; height: 25px;"></td><td style="width: 25%; height: 25px;"></td><td style="width: 25%; height: 25px;"></td><td style="width: 25%; height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> <tr><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td><td style="height: 25px;"></td></tr> </table>																																													Marks (5.0)

(D01.7c)	Graph number: D01.7c	Marks (7.0)
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(D01.7d)	$i =$ $R_p =$ $R_\odot$	Marks (4.0)
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(D01.8)	ROCKY GASEOUS	Marks (2.0)
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Total:

Summary Answersheet

FRONT

Contestant Code

Q. No.

D02

Page No.

SA-7

Final answers

(D02.1a)

CME Name	u (km s ⁻¹)	v (km s ⁻¹)	τ (h)			
CME-A	804	470	74.5			
CME-B	247	360	127.5			
CME-C	523	396	103.5			
CME-D	830	415	71.0			
CME-E	665	400	104.5			
CME-F	347	350	101.5			
CME-G	446	375	99.5			
CME-H	155	360	97.0			
CME-I	1016	515	67.0			
CME-J	683	410	54.0			

Marks (3.0)

(D02.1b)

Graph number: D02.1b

$m =$

$\alpha =$

Marks (15.0)

Final answers

(D02.1c)

CME Name	$a_{\text{model}}(\text{m s}^{-2})$
CME-A	
CME-B	
CME-C	
CME-D	
CME-E	
CME-F	
CME-G	
CME-H	
CME-I	
CME-J	

$\delta a_{\text{rms}} =$

Marks (4.0)

(D02.2a)

$\tau_{1,m} =$ h

$\tau_{2,m} =$ h

Marks (4.0)

(D02.2b)

	VALID	NOT VALID
CME-1		
CME-2		

Marks (2.0)

Final answers

(D02.3a)

C1:

$$\delta R_D =$$

$$R_\odot$$

C2:

$$\delta R_D =$$

$$R_\odot$$

Marks (6.0)

(D02.3b)

Data Point	t (in h)	C3	C4
		$R_D(t)$ (in $R_\odot$)	$R_D(t)$ (in $R_\odot$)
P5	21.0		
P6	50.0		
P7	85.0		
P8	111		

Marks (4.0)

(D02.3c)

Graph number: D02.3c

Marks (10.0)

Final answers

(D02.3d)

C3: $|\delta\tau| =$

C4: $|\delta\tau| =$

Marks (4.0)

(D02.3e)

TRUE

FALSE

Marks (1.0)

(D02.4)

CME Name	u (km s ⁻¹)	v (km s ⁻¹)	τ (h)	V_s (km s ⁻¹)
CME-A	804	470	74.5	
CME-B	247	360	127.5	
CME-C	523	396	103.5	
CME-D	830	415	71.0	
CME-E	665	400	104.5	
CME-F	347	350	101.5	
CME-G	446	375	99.5	
CME-H	155	360	97.0	
CME-I	1016	515	67.0	
CME-J	683	410	54.0	

$V_{s, \text{avg}} =$

Marks (7.0)

Total: